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NOTICE OF ALLOWANCE AND FEE(S) DUE

1688

7590

02/17/2010

Polster, Lieder, Woodruff & Lucchesi, L.C. 12412 Powerscourt Dr. Suite 200 St. Louis, MO 63131-3615

EXAMINER

LORENCE, RICHARD M

ART UNIT PAPER NUMBER

3655

DATE MAILED: 02/17/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585.024	06/28/2006	Xiaolan Ai	TIMK 8546W1	6049

TITLE OF INVENTION: ELECTRO-MECHANICAL GEAR SELECTOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/17/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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	, Woodruff & Luc ourt Dr. Suite 200 3131-3615	chesi, L.C.	I hei State addr trans	eby certify that this es Postal Service with essed to the Mail Semitted to the USPTC	Fee(s) Transmittal is being a sufficient postage for fir top ISSUE FEE address (571) 273-2885, on the c	g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	Α	TTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,024	06/28/2006		Xiaolan Ai		TIMK 8546W1	6049
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/17/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS			
LORENCE, R	RICHARD M	3655	192-071000			
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required. 			(1) the names of up to or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attorlisted, no name will be	rely, e firm (having as a m gent) and the names meys or agents. If no printed.	ember a 2 of up to	
	less an assignee is identi h in 37 CFR 3.11. Comp		THE PATENT (print or typ data will appear on the pa T a substitute for filing an a (B) RESIDENCE: (CITY	ntent. If an assignee assignment.		locument has been filed for
Please check the appropri	iate assignee category or	categories (will not be pr	rinted on the patent): \Box	Individual	oration or other private gr	oup entity 🖵 Government
	are submitted: To small entity discount p # of Copies	permitted)	 Payment of Fee(s): (Plea A check is enclosed. Payment by credit can The Director is hereby overpayment, to Depo 	d. Form PTO-2038 is authorized to charge	s attached. the required fee(s), any de	
a. Applicant claims	tus (from status indicated s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no long			
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if reque cords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than the Office.	ne applicant; a registe	red attorney or agent; or the	he assignee or other party in
Authorized Signature				Date		
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This collection of inform an application. Confident submitting the completed his form and/or suggesti Box 1450. Alexandria V	ation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bur fireinia 22313-1450 DC	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the DNOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 min idual case. Any comi r, U.S. Patent and Tr) THIS ADDRESS 5	public which is to file (an nutes to complete, including ments on the amount of ti addemark Office, U.S. Dep SEND TO: Commissioner	d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450.

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Polster, Lieder, V	Voodruff & Lucchesi	, L.C.	LORENCE, RICHARD M		
12412 Powerscour	:		ART UNIT	PAPER NUMBER	
St. Louis, MO 63131-3615			3655		
			DATE MAILED: 02/17/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 517 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 517 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)			
	40/505 004				
Notice of Allowability	10/585,024 Examiner	AI, XIAOLAN Art Unit			
•	D	0055			
	Richard M. Lorence	3655			
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commun IGHTS. This application is su	this application. If not include nication will be mailed in due	ed course. THIS		
1. \boxtimes This communication is responsive to <u>the amendments filed</u>	d on September 16, 2009 and	January 4, 2010.			
2. The allowed claim(s) is/are <u>1-8</u> .					
3. Acknowledgment is made of a claim for foreign priority ur	nder 35 U.S.C. § 119(a)-(d) o	r (f).			
a) ☐ All b) ☐ Some* c) ☐ None of the:					
 Certified copies of the priority documents have 	e been received.				
Certified copies of the priority documents have	been received in Application	No			
Copies of the certified copies of the priority do	cuments have been received	in this national stage applica	tion from the		
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the red	quirements		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review	(PTO-948) attached			
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of		
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			Note the		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Info	ormal Patent Application			
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🗌 Interview Su				
3. X Information Disclosure Statements (PTO/SB/08),	Paper No./N 7.	fail Date .mendment/Comment			
Paper No./Mail Date <u>9/16/09 & 1/4/10</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's S	Statement of Reasons for Allo	wance		
of Biological Material	9.				

This action is in response to the amendment filed on September 16, 2009 and the supplemental amendment filed on January 4, 2010.

Claims 1, 6 and 7 have been amended. The amendment of claim 7 has overcome the claim objection.

Claims 1-8 remain pending.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on September 16, 2009 and again on January 4, 2010 has been considered by the examiner.

Oath/Declaration

The supplemental declaration filed on September 16, 2009 overcomes the defect noted in the previous action.

Drawings

The replacement drawing sheets received on September 16, 2009 overcome the drawing objections in the prior action. The drawings are acceptable.

Specification

The substitute specification filed on January 4, 2010 has been approved for entry and overcomes the objection set forth in the previous Office action.

Response to Arguments

Applicant's arguments appearing on page 8 of the response filed January 4, 2010, with respect to claims 1 and 6 have been fully considered and are persuasive. Accordingly, the rejection of claims 1, 2, 4, 6 and 7 under 35 U.S.C. § 102(b) as being anticipated by Jessen '104 has been withdrawn.

Allowable Subject Matter

Claims 1-8 are allowed.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

None of the prior art discloses or renders obvious a gear-clutch assembly including a gear having grooves, a hub having grooves, and keys within the grooves of the hub as specified in claim 1, and particularly wherein the number of keys is evenly divisible by the difference in the number of grooves between the hub and the gear; and the grooves of the gear are arranged relative to the keys located within the grooves of the hub so that at least one key is positioned to enter one of the grooves of the gear at any angular alignment between the gear and the hub.

None of the prior art discloses or renders obvious a method of operating a gearclutch assembly including the steps of providing a gear having grooves, providing a hub having grooves and providing keys within the grooves of the hub as recited in claim 6, and particularly wherein the number of keys is evenly divisible by the difference in the number of grooves between the hub and the gear; and the grooves of the gear are arranged relative to the keys located within the grooves of the hub so that at least one key is positioned to enter one of the grooves of the gear at any angular alignment between the gear and the hub.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard M. Lorence whose telephone number is 571-272-7094. The examiner can normally be reached on Mondays through Fridays from 10:30AM to 7:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David D. Le can be reached on 571-272-7092. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/585,024 Page 5

Art Unit: 3655

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Richard M. Lorence/ Primary Examiner, Art Unit 3655